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10 PROCESS FOR EVALUATING CHEMICAL AND BIOLOGICAL ASSAYS

ABSTRACT OF THE DISCLOSURE

 An analytical process is disclosed, for discriminating
data acquired from samples with overlapping distributions, and
15 for improving and assessing the statistical validity of
hybridization signal in arrays of assays. The process includes
method of convolving data into two or more discrete probability
density functions representing signal and nonsignal, discrete
fluors, or other convolved independent variables. The system
20 uses the probability density functions to assign hybridization
signals, objectively, to one of the modeled distributions.
Subsequent processes assess variability inherent to the arrays,
and use this assessed variation to establish reliability scores
and confidence limits for complete hybridization arrays, and for
25 discrete hybridization assays within arrays.

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